From the INTERNATIONAL SEARCHING AUTHORITY

r Pending VS case

To-	
Gregory A. Hunt JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200, UNIVERSITY TOWER 3100 TOWER BOULEVARD DURHAM, NC 27707	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day month year)
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
1497/25PCT	
International application No. PCT/US06/41065	International filing date (day month year) 19 October 2006
Applicant SANTERA SYSTEMS, INC	
Authority have been established and are transmitted he	1
Filing of amendments and statement under Article I The applicant is entitled, if he so wishes, to amend the	
When? The time limit for filing such amendme international search report. Where? Directly to the International Bureau of Wi	
1211 Geneva 20, Switzerland, Facsimile N For more detailed instructions, see the notes on the	No.: +41 22 740 14 35
2. The applicant is hereby notified that no international	search report will be established and that the declaration under file International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) ac	ditional fee(s) under Rule 40.2, the applicant is notified that:
	has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the	ne applicant will be notified as soon as a decision is made.
International Bureau. If the applicant wishes to avoid or a application, or of the priority claim, must reach the Internation before the completion of the technical preparations for intern	
International Bureau. The International Bureau will send	the written opinion of the International Searching Authority to the a copy of such comments to all designated Offices unless an the established. These comments would also be made available to e priority date.
examination must be filed if the applicant wishes to postpone date (in some Offices even later); otherwise, the applicant mu acts for entry into the national phase before those designated	
In respect of other designated Offices, the time limit of 30 i months.	nonths (or later) will apply even if no demand is filed within 19
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet	applicable time limits, Office by Office, see the PCT Applicant's site.
Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT Atin: ISA/US Commissioner for Patents	Blaine R. Copenheaver
P O Box 1450 Alexandria Virginia 22313-1450 Facsimile No. 571-273-3201	Telephone No 571-272-7774
Form D/TT 15 a 220 / January 2004)	Con notes on accompanying thesis

Name and marling address of the ISA/US	Authorized officer:
Maii Stop PCT Alin: ISA/US Commissioner for Patents	Blaine R. Copenheaver
P.O. Box 1450 Alexandria Virginia 22313-1450	
Facsimile No. 571-273-3201	Telephone No 571-272-7774

DOCKET DATES: _ 5/18 , 6/18/07 - DEM ASSIGNED ATTY: _ GAH FILE NO. 1497/25 PCT DOCKETED BY: PEL DATE: 4/30/07 * Dal to file 105 in 1497/25 is 7/26/07

From the INTERNATIONAL SEARCHING AUTHORITY

To: Gregory A. Hunt	PCT		
JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200, UNIVERSITY TOWER 3100 TOWER BOULEVARD DURHAM, NC 27707	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing day month years 26 APR 2007		
Applicant's or agent's file reference	CON CURTURE ACTION A		
1497/25PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date		
PCT/US06/41065	(day month year) 19 October 2006		
Applicant SANTERA SYSTEMS, INC			
The applicant is hereby notified that the international s Authority have been established and are transmitted by	search report and the written opinion of the International Searching		
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the			
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.			
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35			
For more detailed instructions, see the notes on the accompanying sheet.			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.			
4 Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later), otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
in respect of other designated Offices, the time limit of 30 i	months (or later) will apply even if no demand is fifed within 19		
See the Annex to Form PCT/IB/301 and, for details about the Guide. Volume II. National Chapters and the WIPO Internet	e applicable time limits. Office by Office, see the PCT Applicant's site.		
Name and mailing address of the ISA/US	Authorized officer:		
Mail Stop PCT. Alln: ISA/US Commissioner for Patients	Blaine R. Copenheaver		
PO Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201			
Linestonie (40) pricera-agor	Telephone No. 571-272-7774		

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1497/25PCT	FOR FURTHER ACTION as well	see Form PCT/ISA/220 as, where applicable, item 5 below.
International application No. PCT/US06/41065	International filing date (day/month/year) 19 October 2006	(Earliest) Priority Date (day/month/year) 18 November 2005
Applicant SANTERA SYSTEMS, INC		
according to Article 18. A copy is bein This international search report consists It is also accompanied by a 1. Basis of the report a. With regard to the language, the international app a translation of the in of a translation furni b. With regard to any nucleon	en prepared by this International Searching Ag transmitted to the International Bureau. of a total of sheets. a copy of each prior art document cited in this c international search was carried out on the ballication in the language in which it was filed international application into shed for the purposes of international search (tide and/or amino acid sequence disclosed in d unsearchable (see Box No. II)	report. asis of: the language Rules 12.3(a) and 23.1(b))
3. Unity of invention is lack 4. With regard to the title, the text is approved as subtitle text has been established.		
may, within one month from 6. With regard to the drawings. a. the figure of the drawings to be	ed, according to Rule 38.2(b), by this Authority in the date of mailing of this international search published with the abstract is Figure No. 1	y as it appears in Box No. IV. The applicant ch report, submit comments to this Authority
as selected by this A	applicant unbority, because the applicant failed to sugges uthority, because this figure better characterize published with the abstract	_

INTERNATIONAL SEARCH REPORT

International application No. PCT/US06/41065

IPC(8) - USPC -	SSIFICATION OF SUBJECT MATTER H04Q 7/00 (2007.01) 370/331 o International Patent Classification (IPC) or to both n	ational classification and IPC	
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Minimum do	ocumentation searched (classification system followed by		
	IQ 7/00, 7/20 (2007.01); H04L 12/28, 12/56, 12/66 (200 /331, 401; 455/436-444	7.01)	
Documentar	ion searched other than minimum documentation to the ex	stent that such documents are included in the	fields searched
Electronic da	ata base consulted during the international search (name o	f data base and, where practicable, search to	rms used)
MicroPatent.	, IP.com, IEEEXplore, Google Patents		
c. Docu	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y	US 6,876,646 B1 (DORE et al) 05 April 2005 (05.04,20	005) entire document	1-39
Y	Y US 2005/0074017 A1 (QIAN et al) 07 April 2005 (07.04.2005) entire document		1-39
A	US 2005/0085181 A1 (TAO) 21 April 2005 (21.04.200)	5) entire document	1-39
A	US 2005/0048973 A1 (HOU et al) 03 March 2005 (03.	03.2005) entire document	1-39
A	(RADVISION) "Implementing Media Gateway Control CURL: http://www.radvision.com/NR/rdonlyres/1C34D0RADVISIONMediaGatewayControlProtocol.pdf>) 27 Jientire document	DAA-C455-428B-A839-306926516053/0/	1-39
	-		
Furth	ler documents are listed in the continuation of Box C.		<u> </u>
Special categories of cited documents: "T" later document published after the international filing date or priority			
"A" document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention "E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be			
tiling date considered novel or cannot be considered to involve an inventive step when the document which may throw doubts on priority claim(s) or which is			
cuted to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means			
"P" docum			
	actual completion of the international search	Date of mailing of the international sear-	ch report
26 February	2007	26 APR 2007	
	nailing address of the ISA/US CT. Attn: ISA/US. Commissioner for Patents	Authorized officer: Blaine R. Copenhe	aver
P.O. Box 145	50. Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300	
T Facsimile N	io. 571-273-3201	PCT OSP: 571-272-2774	

From the INTERNATIONAL SEARCHING AUTHORITY PCT To Gregory A. Hunt JENKINS, WILSON, TAYLOR & HUNT, P.A. WRITTEN OPINION OF THE SUITE 1200, UNIVERSITY TOWER INTERNATIONAL SEARCHING AUTHORITY 3100 TOWER BOULEVARD DURHAM, NC 27707 (PCT Rule 43bis.1) Date of mailing 26 APR 2007 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 1497/25PCT International filing date tday month year) Priority date (day month year) International application No. 18 November 2005 PCT/US06/41065 19 October 2006 International Patent Classification (IPC) or both national classification and IPC IPC(8) - H04Q 7/00 (2007.01) USPC - 370/331 Applicant SANTERA SYSTEMS, INC 1 This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention

FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66. Ibis(b) that written opinions of this International Searching Authority will not be so considered.

citations and explanations supporting such statement

Reasoned statement under Rule 43bis,1(a)(i) with regard to novelty, inventive step or industrial applicability;

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Box No. V

3 For further details, see notes to Form PCT/ISA/220.

Box No. VI Certain documents cited

Box No. VII Certain defects in the international application

Box No. VIII Certain observations on the international application

Name and mading address of the ISA/US	Date of completion of this opinion	Authorized officer
Mail Stop PCT Altn. ISA/US Commissioner for Patents	26 February 2007	Blaine Copenheaver
P O. Box 1450, Alexandria, Virginia 22313-1450		PCT Helpdesk: 571-272-4300
Facsimile No. 571-273-3201	;	. PCT OSP: 571-272-7774

International application No. PCT/US06/41065

Box	No. 1	Basis of this opinion
1	With r	egard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into
2.	claime	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the dinvention, this opinion has been established on the basis of: a sequence listing
	b. lo	mat of material on paper in electronic form
	e. tin	contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	onal comments:

International application No. PCT/US06/41065

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-39	YE
	Claims	None	NO
Inventive step (IS)	Claims	None	YE.
	Claims	1-39	NO
Industrial applicability (IA)	Claims	1-39	YE:
	Claims	None	ОИ

2. Citations and explanations:

Claims 1-39 lack an inventive step under PCT Article 33(3) as being obvious over Dore et al. (US 6,876,646 B1) in view of Qian et al. (US 2005/0074017 A1).

Referring to Claims 1 and 39, Dore et al. discloses a method for distributed resource allocation between media gateways (MGs) in a cluster of MGs (20(1)-20(m), 25-(a)-25(1); col. 1, lines 6-8, fig. 1), and a computer program product comprising computer-executable instructions embodied in a computer readable medium (col. 9, lines 10-22, 30-34) for performing the method comprising; (a) communicating, between media gateways (MGs) in a cluster of MGs controlled by a media gateway controller (MGC 14, 16), available resources provided by each of the MGs (20(1)-20(m), 25(o)-25(1); col. 3, lines 24-33; col. 6, lines 6-10; fig. 1, 4); and (b) at the media gateways; (i) identifying resources required for a call (col. 4, lines 6-9, 23-25; col. 6, lines 46-48; 52-54; where resources are identified by collecting information); and (ii) applying rules to select resources for the call from the available resources (col. 6, lines 6-6-67; col. 7, lines 1-4). However, Dore et al. is silent on (iii) allocating the selected resources to process the call. Nevertheless, in disclosing methods and systems for media gateway resource allocation (par. 1; fig. 4), Olan et al. teaches dynamically allocating selected resources to process a call (par. 11; par. 14, lines 2-5, 14-15; par 25, lines 4-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to allocate the selected resources to process a call (par. 8).

Referring to Claim 2, Dore et al. (as discussed in the lack of inventive step of claim 1 above) discloses that communicating available resources includes communicating the available resources in response to a call setup message (call request) from the MGC (14; col. 6, lines 46-49; col. 9, lines 57-59; col. 10, lines 27-33; fig. 1).

Referring to Claim 3, Dore et al. (as discussed in the lack of inventive step of claims 1, 2 above) discloses that the call setup message (call request) identifies a call context (originaling point, destination point, identification code, other information; col. 6, lines 29-34, 36-40, 46-48; col. 10, lines 12-34).

Referring to Claim 4, Dore et al. (as discussed in the lack of inventive step of claims 1, 2, 3 above) discloses that the call context identifies a pair of port identifiers (originating point, destination point) for connecting the call (col. 6, lines 29-34). However, Dore et al. is silent on the call context identifying conversion characteristics for the call, Nevertheless, Qian et al. teaches call context (call control information) identifying conversion characteristics for a call (par. 2, lines 2-5, 10-16). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include call context identifying conversion characteristics for the call in the invention of Dore et al. as taught by Olan et al. in order to identify the conversion media needed for converting the packets into the appropriate formats for the sending and receiving parties (par. 2, lines 7-10).

Referring to Claim 5, Dore et al. (as discussed in the tack of inventive step of claim 4 above) is sitent on the conversion characteristics including at least one of hybrid echo cancellation (HEC), automatic level control (ALC), automatic tevel enhancement (ALE), automatic noise reduction (ANR), an international telecommunication union (ITU) series G coder/decoder (CODEC) conversion standard, and a voice over IP (VoIP) conversion standard. However, Qian et al. teaches conversion characteristics including an ITU series G CODEC conversion standard (par. 2, lines 5-9; par. 3, lines 1-6; par. 28, lines 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have conversion characteristics including an ITU series G coder/decoder (CODEC) conversion standard in the invention of Dore et al. as taught by Olan et al. in order to convert the media packets into the appropriate formats for the sending and receiving parties (par. 2, lines 7-9).

Referring to Claim 6, Dore et al. (as discussed in the tack of inventive step of claims 1, 2, 3 above) is sitent on identifying resources required for the call including comparing the call context with the available resources. However, Qian et al. teaches that a media gateway comparing a call context (local IP address, local UDP port) with the available resources (physical and fogical resources for a VoIP call; par. 11, par. 12, lines 10-14; par. 13; par. 14, lines 2-5; where the call context are compared with available voice resources, i.e. VoIP chip). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to compare the call context with the available resources in the invention of Dore et al. as taught by Qian et al. in order to identify the available resources that would provide the requested services.

Cont. in Supplemental Box1

International application No. PCT/US06/41065

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of

Box No. V 2. Citations and explanations:

Referring to Claim 7, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on communicating available resources includes communicating an inter-trunk port identifier associated with the call. However, Qian et al. teaches communicating available resources includes communicating an inter-trunk port identifier (UDP port#) associated with a call (par. 37, lines 1-11; par. 41, lines 1-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to communicate an intertrunk port identifier associated with the call in the invention of Dore et al. as taught by Qian et al. in order to communicate the port number that would be used during the call/session (par. 37, lines 5-6).

Referring to Claim 8, Dore et al. (as discussed in the tack of inventive step of claim 1 above) discloses that communicating available resources includes communicating available local resources to a downstream MG (25) within the cluster (MG 25(o)-25(1); col. 3, lines 24-33; col. 6, lines 6-10; fig. 1, 4; where MG 20 communicates available resources to MG 25).

Referring to Claim 9, Dore et al. (as discussed in the lack of inventive step of claim 1 above) discloses communicating available resources includes communicating available resources on an upstream MG (20) to a downstream MG (25) within the cluster (MG 25(o)-25(1); col. 3, lines 24-33; col. 6, lines 6-10; fig. 1, 4).

Referring to Claim 10, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on the available resources include at least one of a resource for hybrid echo cancellation (HEC), a resource for automatic level control (ALC), a resource for automatic noise reduction (ANR), a resource for automatic level enhancement (ALE), a resource for packet voice tunneling including at least one of transaction free operation (TFO) and transcoder free operation (TrFO) through the cluster of MGs, a resource for coder/encoder (CODEC) conversion, a resource to manage music-on-hold broadcasting within a cluster, a resource to manage cellular text modern/teletype (CTMITTY) insertion, and no resource. However, Qian et al. leaches available resources including a resource for coder/encoder (CODEC) conversion (par. 2, lines 5-9; par. 3, lines 1-6; par. 2B, lines 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a resource for CODEC conversion in the invention of Dore et al. as taught by Clan et al. in order to convert the media packets into the appropriate formats for the sending and receiving parties (per. 2, lines 7-9).

Referring to Claim 11, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on applying rules to select resources includes applying at least one of: (a) a rule to minimize a number of converting devices in a call path; (b) a rule to attempt to consolidate converting devices on one MG; (c) a rule to prefer converting devices closer to a terminating port over converting devices farther from the terminating port; (d) a rule that terminating ports decide which of the available resources are to be used; and (e) a rule to allow a terminating MG to override a resource selection made by an inter-connecting MG wherein the inter-connecting MG may have selected a locally available resource to modify a pulse code modulated (PCM) stream. However, Qian et al. teaches (d) a rule in which terminating ports decide which of the available resources are to be used (par. 10, lines 4-7; par. 11; par. 14, lines 2-5; par. 36, lines 1-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a rule that terminating ports decide which of the available resources are to be used in the invention of Dore et al. as taught by Qian et al. in order to prevent resources from being

Referring to Claim 12, Dore et at. (as discussed in the tack of inventive step of claim 3 above) is silent on allocating the selected resources includes selecting, from an MG within the cluster, a resource associated with an MG upstream from the MG within the cluster. However, Qian et al. teaches that allocating resources includes selecting a resource associated with an MG upstream (par. 11; par. 14, lines 1-5; par. 36, lines 4-10; fig. 4, 412). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to select. from an MG within the cluster, a resource associated with an MG upstream from the MG within cluster in the invention of Dore et al. as taught by Qian et al, in order to select only the resources which are needed at the time.

Referring to Claim 13, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on allocating the selected resources includes sending a resource control message from an MG to a neighboring MG within the cluster. However, Qian et al. teaches that the allocation of resources includes sending a resource control message (call control information; commands) from an MG to a neighboring MG (par. 2, lines 5-16; par. 35, lines 5-14). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to send a resource control message from an MG to a neighboring MG within the cluster in the invention of Dore et al. as taught by Qian et al. in order to provide commands controlling the appropriate use of resources.

Referring to Claim 14, Dore et al. (as discussed in the lack of inventive step of claims 1, 13 above) is silent on the resource control message including an upstream termination type associated with the call. However, Qian et al. teaches a resource control message including an upstream termination type (i.e. G.711 codec type) associated with a call (par. 2, lines 10-16; par. 27, lines 1-5; par. 28, lines 2-4, 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have a resource control message including an upstream termination type associated with the call in the invention of Dore et at, as taught by Qian et al, in order to identify the different codec types compatible with the system.

Referring to Claim 15. Dore et al. (as discussed in the lack of inventive step of claims 1, 13, 14 above) is silent on the termination type including at least one of an international telecommunication union (ITU) series G coder/decoder (CODEC) conversion standard and a Voice-over-IP (VoIP) conversion standard. However, Qian et al. teaches the termination type (terminal unit type) including an ITU series G CODEC conversion standard (i.e. G.711, G.726, G.729 codec types; par. 25, lines 4-8; par. 28, lines 2-4, 8-10). Therefore, it would have been opvious to one of ordinary skill in the art at the time of the invention to have a termination type including an iTU series G CODEC conversion standard in the invention of Dore et al. as taught by Qian et al. in order to identify the different codec types compatible with the system.

(Cont. in Next Supplemental Box)

International application No. PCT/US06/41065

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Previous Supplemental Box;

Referring to Claim 16, Dore et al. (as discussed in the lack of inventive step of claims 1, 13, 14, 15 above) is silent on the ITU series G CODEC conversion standard including at least one of G.711 and G.723. However, Qian et al. teaches that the ITU series G CODEC conversion standard includes the G.711 codec type (par. 28, lines 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the ITU series G CODEC conversion standard including G.711 in the invention of Dore et al. as taught by Qian et al. because G.711 CODEC calls require only 100 kbps for transmission in both directions. Therefore, less bandwidth per call is used.

Referring to Claim 17, Dore et al. (as discussed in the lack of inventive step of claims 1, 13 above) is silent on the resource control message includes at least one device identifier to identify at least one of the available resources. However, Qian et al. teaches a resource control message including device identifiers (local IP address, local UDP port) to identify available resources (physical and logical resources for a VoIP call; par. 10, lines 4-7; par. 11; par. 13). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the include at least one device identifier to identify at least one of the available resources in the invention of Dore et al. as taught by Qian et al. in order to uniquely identify the resource that is needed during the current session (par. 37, lines 1-9).

Referring to Claim 18, Dore et al. (as discussed in the lack of inventive step of claim 1 above) also discloses that communicating available resources includes sending a resource available message from an MG (egress media gateway, 25) to a downstream MG (ingress media gateway, 20) within the cluster (MGs 20(1)-20(m); col. 4, lines 6-15; col. 5, lines 4-6, 11-16, 45-47; col. 6, lines 46-48; fig. 1, 4).

Referring to Claim 19, Dore et al. (as discussed in the lack of inventive step of claim 1 above) also discloses allocating the selected resources includes sending a resource select message (request message) from an MG (ingress media gateway, 20) to an upstream MG (egress media gateway, 25) within the cluster (MGs 25(0)-25(1); col. 4, lines 6-15; col. 5, lines 4-6, 11-16, 45-47; col. 6, lines 63-67; col. 7, lines 1-6, 10-13; fig. 1, 4).

Referring to Claim 20, Dore et al. discloses a system for distributed resource allocation between media gateways (MGs) in a cluster of MGs (cot. 1, lines 6-8, fig. 1), the system comprising: (a) a media gateway controller (MGC 14, 16); and (b) a plurality of media gateways (MGs) controlled by the MGC (14, 16) and forming a cluster of MGs (20(1)-20(m), 25-(0)-25(1); fig. 1), wherein the MGs are adapted to: (i) communicate, between the MGs in the cluster, available resources provided by each of the MGs (cot. 3, lines 24-33; cot. 6, lines 6-10; fig. 4); (ii) identify resources required for a call (cot. 4, lines 6-9, 23-25; cot. 6, lines 46-48; 52-54); and (iii) apply rutes to select resources for the call from the available resources (cot. 6, lines 63-67; cot. 7, lines 1-4). However, Dore et al. is silent on (iv) allocating the selected resources to process the call. Nevertheless, Qian et al. teaches allocating selected resources to process a call (par. 14, lines 2-5, 14-15; par 25, lines 4-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to allocate the selected resources to process a call (par. 8).

Referring to Claim 21, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 2 above.

Referring to Claim 22, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21 above) discloses the further recited features as discussed in the lack of inventive step of claim 3 above.

Referring to Claim 23, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21, 22 above) discloses the further recited features as discussed in the lack of inventive step of claim 4 above.

Referring to Claim 24, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21, 22, 23 above) discloses the further recited features as discussed in the lack of inventive step of claim 5 above.

Referring to Claim 25, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21, 22 above) discloses the further recited features as discussed in the lack of inventive step of claim 5 above.

Referring to Claim 26, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 7 above.

Referring to Claim 27. Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 8 above.

Referring to Claim 28, Dore et al. in view of Olan et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 9 above.

Referring to Claim 29, Dore et al., in view of Clain et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features discussed in the lack of inventive step of claim 10 above.

Referring to Claim 30, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 11 above.

(Cont. in Next Supplemental Box)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Previous Supplemental Box:

Referring to Claim 31, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 12 above.

Referring to Claim 32, Dote et at, in view of Qian et at. (as discussed in the lack of Inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 13 above.

Referring to Claim 33, Dore et al. in view of Olan et al. (as discussed in the lack of inventive step of claims 20, 32 above) discloses the further recited features as discussed in the lack of inventive step of claim 14 above.

Referring to Claim 34, Dore et al. in view of Olan et al. (as discussed in the lack of inventive step of claims 20, 32, 33 above) discloses the further recited features as discussed in the tack of inventive step of claim 15 above.

Referring to Claim 35, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 32, 33, 34 above) discloses the further recited features as discussed in the tack of inventive step of claim 16 above.

Referring to Claim 36, Doze et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 32 above) discloses the further recited features as discussed in the lack of inventive step of claim 17 above.

Referring to Claim 37, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 18 above.

Referring to Claim 38, Dore et al. In view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 19 above.

Claims 1-39 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.